

## **2000 SUGAR AND SPECIALTY CROP HIGHLIGHTS**

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### **SUGAR**

Sugar production for 2000 decreased 18 percent from the previous year to 301,000 tons of 96° raw sugar. Declines in both the acreage for harvest and yield accounted for the lower production. Plantations harvested 2.4 million tons of sugarcane with an average yield of 72.5 tons per acre. Sugar prices during 2000 dipped 12 percent to \$309 per ton of 96° raw sugar, resulting in a value (including molasses) of \$95.9 million, a 27 percent decrease from 1999. Closure of two sugar plantations on Maui and Kauai accounted for the declines in acreage and production.

### **COFFEE**

Hawaii farmers harvested a total of 8.7 million pounds of coffee (parchment basis) during the 2000-2001 season, down 13 percent from the previous season. Farm prices across the State averaged \$2.65 per pound (parchment basis) for the 2000-2001 season, up 26 percent from the previous season. Total farm value of the 2000-2001 crop is estimated at \$23.1 million (parchment basis), up 10 percent from the 1999-2000 season. Coffee growers across the State harvested a record high 6,800 acres during the 2000-2001 season, up 6 percent from last season.

Coffee production in Hawaii county totaled 3.8 million pounds (parchment basis) during the 2000-2001 season, up 27 percent from the previous season and the largest harvest of Big Island coffee since the 1970-1971 season's 4.1 million pounds (parchment basis). The 2000-2001 season got off to a late start due to dry weather reducing the initial round of flowering, but a combination of additional acreage and beneficial showers from late spring into summer eventually resulted in a larger than expected crop.

Maui, Honolulu, and Kauai counties combined to produce an estimated 4.9 million pounds (parchment basis) of coffee for the 2000-2001 season, down 30 percent from the previous season's record high, and the lowest total in four seasons. A major factor for the decline in production was the adverse affect that prolonged dry weather has had on some trees.

### **MACADAMIA NUTS**

Hawaii's 2000-2001 macadamia nut crop is estimated at 50.0 million pounds net, wet-in-shell, 6.5 million pounds below the previous season's crop. The decline was due to adverse weather, lower prices, and less harvested acreage. Weather conditions had mixed effects on orchards depending on location. The Kona area continued to experience dry weather, while early November rains caused flooding in a major Ka'u orchard, resulting in crop and tree losses. Those same rains brought some relief to parched South Kona orchards. Lower prices also caused growers to abandon acreage and to replant with coffee or other crops. Overall yields averaged 2,820 pounds per acre (net, wet in-shell), down 170 pounds from the previous season.

Total acreage in crop dropped 1,500 acres from the previous year to 18,400 acres and the lowest total since the 1984-85 crop year. Harvested acreage also declined by 1,200 acres totaling 17,700 acres. More acreage was abandoned this season due to a large orchard on Maui discontinuing macadamia nut operations.

The farm price for net, wet in-shell macadamia nuts averaged 59.0 cents per pound, down 8.0 cents from the 1999-2000 average. The farm value for the 2000-01 crop is estimated at \$29.5 million, down 22 percent from the previous year. Hawaii growers continued to feel the impact from increased world competition.

## COFFEE: Number of farms, acreage, yield, marketings, price, and value, by counties, 1996-2000

Crop year <sup>1</sup>	Farms	Acreage		Yield <sup>2</sup>	Marketings <sup>3</sup>	Farm prices			Value of sales	Green production
		In crop	Harvested			Cherry	Parchment	All <sup>4</sup>		
	<i>Number</i>	<i>----- Acres -----</i>		<i>--- 1,000 pounds ---</i>		<i>----- Cents per pound -----</i>			<i>1,000 dollars</i>	<i>1,000 pounds</i>
<b>State</b>										
1996-97	560	6,600	5,400	1.2	6,400			325.0	20,800	5,000
1997-98	585	7,000	5,800	1.6	9,400			300.0	28,200	7,720
1998-99	610	7,400	6,100	1.6	9,500			260.0	24,700	7,600
1999-00	650	7,700	6,400	1.6	10,000			210.0	21,000	8,100
<b>2000-01</b>	<b>670</b>	<b>7,900</b>	<b>6,800</b>	<b>1.3</b>	<b>8,700</b>			<b>265.0</b>	<b>23,055</b>	<b>7,000</b>
<b>Counties:</b>										
<b>Hawaii</b>										
1996-97	550	2,160	1,720	1.3	2,300	105.0	550.0	470.0	10,810	1,850
1997-98	575	2,490	1,900	1.5	2,850	135.0	700.0	570.0	16,245	2,300
1998-99	600	2,800	2,170	1.6	3,500	130.0	500.0	460.0	16,100	2,800
1999-00	635	3,200	2,400	1.2	3,000	70.0	360.0	310.0	9,300	2,400
<b>2000-01</b>	<b>650</b>	<b>3,350</b>	<b>2,700</b>	<b>1.4</b>	<b>3,800</b>	<b>85.0</b>	<b>425.0</b>	<b>400.0</b>	<b>15,200</b>	<b>3,000</b>
<b>Honolulu/Kauai/Maui<sup>5</sup></b>										
1996-97	10	4,440	3,680	1.1	4,100			243.0	9,990	3,150
1997-98	10	4,510	3,900	1.7	6,550			183.0	11,955	5,420
1998-99	10	4,600	3,930	1.5	6,000			143.0	8,600	4,800
1999-00	15	4,500	4,000	1.8	7,000			167.0	11,700	5,700
<b>2000-01</b>	<b>20</b>	<b>4,550</b>	<b>4,100</b>	<b>1.2</b>	<b>4,900</b>			<b>160.3</b>	<b>7,855</b>	<b>4,000</b>

<sup>1</sup> Coffee harvesting occurs throughout the year in Hawaii. The main harvest normally begins in late summer and extends to the early part of the following year.

<sup>2</sup> Average yields based on parchment equivalent marketings and harvested acreage.

<sup>3</sup> Expressed in parchment equivalent pounds. Coffee marketed in cherry form was converted to an equivalent parchment weight and added to parchment marketings.

<sup>4</sup> Represents an average farm price for parchment equivalent sales. Obtained by dividing farm revenues from the sale of cherry and parchment coffee by total marketings (parchment equivalent basis).

<sup>5</sup> Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

## GINGER ROOT

The farm value of Hawaii's 1999-2000 ginger root crop is estimated at a record high \$8.9 million, up 11 percent from the previous season. The record revenue was generated by a 32 percent increase in the average farm price that more than offset a 16 percent decline in production.

At 66.0 cents per pound, the 1999-2000 average farm price was the third consecutive year of increase, but was also well below the record high farm price of 92.3 cents per pound reached during the 1981-1982 season. The previous record high for farm revenue was set during the 1996-1997 season at \$8.1 million.

Hawaii farmers harvested 13.5 million pounds of ginger root during the 1999-2000 season, down 16 percent from the previous season. The main reason for the decline in output was a 23 percent decrease in harvested acreage to 270 acres, the lowest total in four years.

Offsetting some of the decline in harvested acreage was a 9 percent increase in average yields to 50,000 pounds. The improvement in yields was mainly a result of improved weather conditions in the windward area of the Big Island which accounts for most of the State's ginger root.

### GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
1996	200	47.0	9,400	87.0	7,050
1997	275	44.0	12,100	75.0	8,107
1998	360	50.0	18,000	40.0	7,200
1999	350	46.0	16,100	50.0	8,050
<b>2000</b>	<b>270</b>	<b>50.0</b>	<b>13,500</b>	<b>66.0</b>	<b>8,910</b>

### GINGER ROOT: U.S. imports, 1996-2000

Year	Unground (including fresh)	Ground	Sweet	Candied	Total
			1,000 pounds		
1996	30,367	1,220	1,819	1,065	34,471
1997	29,649	854	2,046	1,267	33,816
1998	30,375	563	1,816	1,512	34,265
1999	33,679	669	2,059	2,000	38,406
<b>2000</b>	<b>41,141</b>	<b>825</b>	<b>2,845</b>	<b>2,080</b>	<b>46,890</b>

Source: Foreign Agricultural Trade of the United States, Economic Research Service, U.S. Department of Agriculture.

# HERBS, SEED CROPS

## FRESH HERBS: Production, price, and value, State of Hawaii, 1996-2000

Year	Basil			Parsley	Chinese parsley (Cilantro)	Other herbs <sup>1</sup>	All herbs
	Sweet (Italian)	Asian	Total				
<b>Production - 1,000 pounds</b>							
1996	510	390	900	200	70	230	1,400
1997	1,100	500	1,600	200	100	300	2,200
1998	1,200	500	1,700	125	75	500	2,400
1999	1,500	600	2,100	190	90	520	2,900
<b>2000</b>	<b>1,600</b>	<b>500</b>	<b>2,100</b>	<b>220</b>	<b>80</b>	<b>500</b>	<b>2,900</b>
<b>Farm price - dollars per pound</b>							
1996	2.20	1.40		1.70	2.70	2.40	
1997	2.00	1.00		1.75	2.65	2.30	
1998	1.90	.90		2.05	2.70	2.20	
1999	2.00	.70		2.00	2.15	2.70	
<b>2000</b>	<b>2.00</b>	<b>.80</b>		<b>2.00</b>	<b>3.00</b>	<b>2.20</b>	
<b>Farm value - 1,000 dollars</b>							
1996	1,122	546	1,668	340	189	552	2,749
1997	2,200	500	2,700	350	265	690	4,005
1998	2,280	450	2,730	256	203	1,100	4,289
1999	3,000	420	3,420	380	194	1,404	5,398
<b>2000</b>	<b>3,200</b>	<b>400</b>	<b>3,600</b>	<b>440</b>	<b>240</b>	<b>1,100</b>	<b>5,380</b>

<sup>1</sup> Includes spearmint, dill, and other miscellaneous herbs. Also includes small amounts of basil and parsley for which an individual total could not be obtained or published separately in order to avoid disclosure of individual operations.

## SEED CROPS: Number of farms, acreage, outshipments, and value, State of Hawaii, 1996-2000

Crop year <sup>1</sup>	Farms	Acreage				Total outshipments of seed	Value <sup>2</sup>		
		Total	Nursery	Seed increase	Grow-out or observation		Total	Seed corn	Other seed crops
	<i>Number</i>	<i>Acres</i>				<i>1,000 pounds</i>	<i>1,000 dollars</i>		
1996-97	6	1,780	625	1,060	95	3,160	20,250	19,030	1,220
1997-98	8	2,960	1,040	1,830	90	4,050	25,150	24,684	466
1998-99	8	3,070	1,120	1,870	80	5,000	25,300	24,620	680
1999-00	8	2,450	1,045	1,300	105	3,500	30,500	28,700	1,800
<b>2000-01</b>	<b>8</b>	<b>2,750</b>	<b>1,045</b>	<b>1,590</b>	<b>115</b>	<b>4,450</b>	<b>35,400</b>	<b>33,230</b>	<b>2,170</b>

<sup>1</sup> Seed crops are grown year-round in Hawaii. However, the main season is from November to June.

<sup>2</sup> Value is based on sales or gross operational budgets.

# SUGARCANE

## SUGARCANE: Number of farms, acreage, yield, production, price, and value, by counties, 1996-2000<sup>1</sup>

Year	Farms <sup>2</sup>	Acreage		Yield per acre		Production of cane for sugar	Farm price <sup>3</sup>	Value of cane for sugar <sup>4</sup>
		In crop <sup>2</sup>	Harvested for sugar	Sugarcane <sup>3</sup>	Raw sugar 96°			
	<i>Number</i>	<i>----- 1,000 acres -----</i>		<i>----- Tons -----</i>		<i>1,000 tons</i>	<i>Dollars per ton</i>	<i>Million dollars</i>
<b>State</b>								
1996	7	68.8	42.9	82.6	10.18	3,544	30.50	108.1
1997	4	67.8	32.0	91.4	11.15	2,925	29.20	85.5
1998	4	67.6	30.3	90.0	11.66	2,727	32.00	87.4
1999	4	67.0	35.4	81.7	10.38	2,892	30.00	86.8
<b>2000</b>	<b>3</b>	<b>60.0</b>	<b>32.6</b>	<b>72.5</b>	<b>9.23</b>	<b>2,364</b>	<b>26.50</b>	<b>62.6</b>
<b>Counties:</b>								
<b>Hawaii</b>								
1996	1	0	1.3	62.3	5.56	81	21.50	1.7
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
<b>2000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Honolulu</b>								
1996	1	0	4.8	85.0	8.69	408	25.40	10.4
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
<b>2000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Kauai</b>								
1996	3	26.5	16.7	81.0	9.34	1,353	28.70	38.8
1997	2	25.4	12.3	92.8	10.80	1,141	27.70	31.6
1998	2	24.7	11.3	83.5	10.29	944	30.40	28.7
1999	2	23.7	13.9	66.0	8.08	917	29.00	26.6
<b>2000</b>	<b>2</b>	<b>23.1</b>	<b>14.0</b>	<b>53.6</b>	<b>6.50</b>	<b>751</b>	<b>24.90</b>	<b>18.7</b>
<b>Maui</b>								
1996	2	42.3	20.1	84.7	11.55	1,702	33.60	57.2
1997	2	42.4	19.7	90.6	11.36	1,784	30.20	53.9
1998	2	42.9	19.0	93.8	12.48	1,783	32.90	58.7
1999	2	43.3	21.5	91.9	11.86	1,975	30.50	60.2
<b>2000</b>	<b>1</b>	<b>36.9</b>	<b>18.6</b>	<b>86.7</b>	<b>11.29</b>	<b>1,613</b>	<b>27.20</b>	<b>43.9</b>

<sup>1</sup>Primary data source, Hawaii Agricultural Research Center.

<sup>2</sup>At end of year.

<sup>3</sup>Yield and farm price may not compute exactly due to rounding.

<sup>4</sup>Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges paid by independent producers.

**SUGAR: Production of raw sugar and molasses, price, and value, by counties, 1996-2000 <sup>1</sup>**

Year	Mill production		Average returns received <sup>2</sup>		Value of production		
	Raw sugar 96°	Molasses <sup>3</sup>	Raw sugar 96°	Molasses <sup>3</sup>	Raw sugar 96°	Molasses <sup>3</sup>	Total
	----- 1,000 tons -----		----- Dollars per ton -----		----- Million dollars -----		
<b>State</b>							
1996	437	147	368	54.50	160.8	8.0	168.8
1997	357	131	357	38.60	127.5	5.0	132.5
1998	354	118	368	23.50	130.3	2.8	133.1
1999	368	137	352	13.30	129.5	1.8	131.3
<b>2000</b>	<b>301</b>	<b>102</b>	<b>309</b>	<b>27.20</b>	<b>93.1</b>	<b>2.8</b>	<b>95.9</b>
<b>Counties:</b>							
<b>Hawaii</b>							
1996	7	3	350	38.60	2.5	.1	2.6
1997	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
<b>2000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Honolulu</b>							
1996	42	17	363	48.20	15.2	.8	16.0
1997	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
<b>2000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Kauai</b>							
1996	156	52	370	56.20	57.7	2.9	60.6
1997	133	41	354	39.80	47.1	1.6	48.7
1998	117	33	366	24.50	42.8	.8	43.6
1999	113	38	351	13.70	39.7	.5	40.2
<b>2000</b>	<b>91</b>	<b>31</b>	<b>305</b>	<b>29.60</b>	<b>27.8</b>	<b>.9</b>	<b>28.7</b>
<b>Maui</b>							
1996	232	75	368	55.40	85.4	4.2	89.6
1997	224	90	359	38.00	80.4	3.4	83.8
1998	237	85	369	23.10	87.5	2.0	89.5
1999	255	99	352	13.20	89.8	1.3	91.1
<b>2000</b>	<b>210</b>	<b>71</b>	<b>311</b>	<b>26.20</b>	<b>65.3</b>	<b>1.9</b>	<b>67.2</b>

<sup>1</sup> Primary data source, Hawaii Agricultural Research Center.<sup>2</sup> Derived from production and value. State and county prices may not compute exactly due to rounding.<sup>3</sup> Commercial.

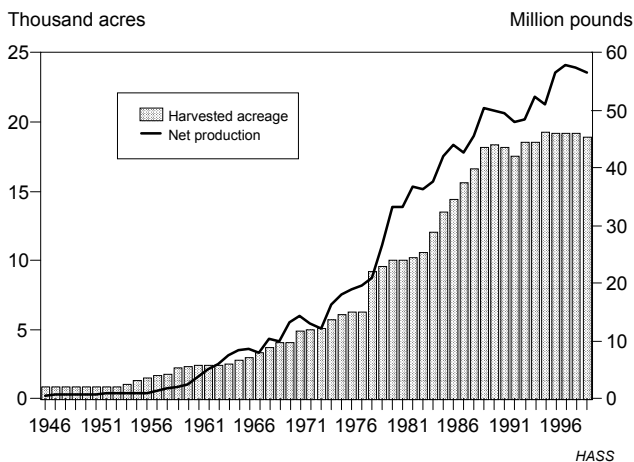
# MACADAMIA NUTS

## MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 1996-2000 crop years

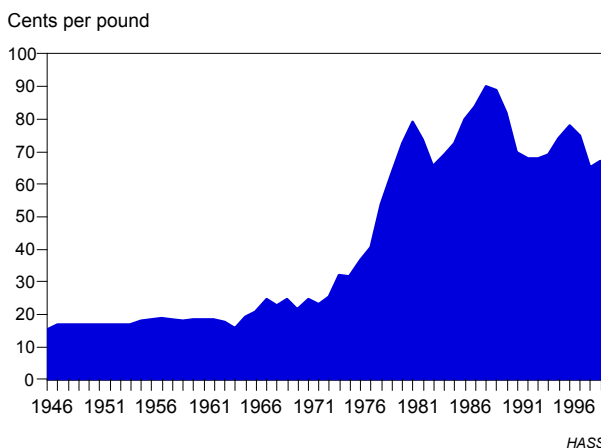
Crop year <sup>1</sup>	Farms	Acreage		Yield per acre <sup>3</sup>	Production <sup>4</sup>		Average moisture		Farm prices <sup>4</sup>		Farm value <sup>8</sup>
		In crop	Harvested <sup>2</sup>		Gross <sup>5</sup>	Net <sup>6</sup>	Entire crop	Purchases only	Gross <sup>7</sup>	Net	
	Number	----- Acres -----			---- 1,000 pounds ----		----- Percent -----		Cents per pound -----		1,000 dollars
1996-97	750	20,200	19,200	2.9	63,000	56,500	18.6	17.9	70.0	78.0	44,070
1997-98	800	20,200	19,200	3.0	65,000	58,000	19.5	19.6	66.9	75.0	43,500
1998-99	800	20,200	19,200	3.0	66,000	57,500	20.5	20.8	57.0	65.0	37,375
1999-00	750	19,900	18,900	3.0	64,000	56,500	19.3	19.3	59.1	67.0	37,855
<b>2000-01</b>	<b>650</b>	<b>18,400</b>	<b>17,700</b>	<b>2.8</b>	<b>56,000</b>	<b>50,000</b>	<b>21.0</b>	<b>21.0</b>	<b>52.7</b>	<b>59.0</b>	<b>29,500</b>

<sup>1</sup> Season begins July 1st and ends June 30th of the following year. <sup>2</sup> Called bearing acreage prior to 1993-94 crop year. <sup>3</sup> Net production per bearing acre. <sup>4</sup> Wet in-shell basis, delivered to processors. <sup>5</sup> Gross pounds delivered for processing. <sup>6</sup> Gross pounds delivered for processing less total spoilage. <sup>7</sup> Farm value divided by gross production. <sup>8</sup> Net production multiplied by net farm price.

MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 1946-2000 Seasons



MACADAMIA NUTS: Net Wet-in-shell Farm Prices, State of Hawaii, 1946-2000 Seasons



# FLORICULTURE AND NURSERY PRODUCTS

Grower sales of Hawaii's flower and nursery products totaled a record \$83.4 million in 2000. Wholesale value for 2000 was 10 percent higher than the \$75.7 million value for 1999. Cut flowers, orchids, foliage, and potted flowering plant categories registered increases in 2000.

Hawaii county, with \$47.8 million in sales, ranked number one in 2000. Honolulu farmers registered sales of \$24.2 million, 11 percent higher than 1999. Maui county sales totaled \$9.9 million, 1 percent higher than last year. Kauai sales, pegged at \$1.5 million, were 6 percent lower than a year ago.

## FLORICULTURE AND NURSERY PRODUCTS: Value of grower sales, by counties, 1996-2000

Year	Cut flowers <sup>1</sup>	Orchids <sup>2</sup>	Lei flowers	Foliage <sup>3</sup>	Potted flowering plants	All other nursery products <sup>4</sup>	Unspecified sales <sup>5</sup>	Total
<i>1,000 dollars</i>								
<b>State</b>								
1996	15,101	15,413	3,943	17,580	3,854	11,613	1,366	68,870
1997	13,969	15,479	3,813	16,989	3,751	11,250	1,404	66,655
1998	15,176	15,790	3,485	<sup>6</sup> 15,403	3,892	17,982	1,479	73,207
1999	16,517	17,166	4,051	16,055	4,421	15,978	1,537	75,725
<b>2000</b>	<b>16,796</b>	<b>17,963</b>	<b>3,680</b>	<b>18,195</b>	<b>5,044</b>	<b>20,060</b>	<b>1,642</b>	<b>83,380</b>
<b>Counties:</b>								
<b>Hawaii</b>								
1996	11,672	7,230	1,136	11,125	595	1,978	539	34,275
1997	10,939	8,063	1,226	11,124	882	1,726	541	34,501
1998	11,410	9,114	1,022	<sup>6</sup> 11,612	1,676	3,715	604	39,153
1999	12,588	10,015	1,697	12,754	2,011	2,718	679	42,462
<b>2000</b>	<b>13,083</b>	<b>10,113</b>	<b>1,212</b>	<b>15,657</b>	<b>2,120</b>	<b>4,884</b>	<b>742</b>	<b>47,811</b>
<b>Honolulu</b>								
1996	941	7,095	1,506	5,554	2,282	7,282	455	25,115
1997	848	6,136	1,332	4,957	1,917	6,562	379	22,131
1998	774	5,839	1,258	<sup>6</sup> 3,331	1,387	10,745	409	23,743
1999	745	5,741	1,210	2,601	1,063	10,119	386	21,865
<b>2000</b>	<b>680</b>	<b>6,578</b>	<b>1,094</b>	<b>1,940</b>	<b>1,609</b>	<b>11,817</b>	<b>443</b>	<b>24,161</b>
<b>Kauai</b>								
1996	117	344	73	<sup>7</sup>	<sup>7</sup>	1,308	123	1,965
1997	76	<sup>7</sup>	<sup>7</sup>	<sup>7</sup>	<sup>7</sup>	1,555	173	1,804
1998	138	<sup>7</sup>	<sup>7</sup>	<sup>7</sup>	<sup>7</sup>	1,090	132	1,360
1999	133	411	<sup>7</sup>	72	118	696	117	1,547
<b>2000</b>	<b>99</b>	<b>245</b>	<sup>7</sup>	<b>55</b>	<b>194</b>	<b>757</b>	<b>111</b>	<b>1,461</b>
<b>Maui</b>								
1996	2,371	744	1,228	<sup>7</sup>	<sup>7</sup>	2,923	249	7,515
1997	2,106	<sup>7</sup>	<sup>7</sup>	<sup>7</sup>	<sup>7</sup>	5,802	311	8,219
1998	2,854	<sup>7</sup>	<sup>7</sup>	<sup>7</sup>	<sup>7</sup>	5,763	334	8,951
1999	3,051	999	<sup>7</sup>	628	1,229	3,589	355	9,851
<b>2000</b>	<b>2,934</b>	<b>1,027</b>	<sup>7</sup>	<b>543</b>	<b>1,121</b>	<b>3,976</b>	<b>346</b>	<b>9,947</b>

<sup>1</sup> Cut orchids included in "Orchids" category. <sup>2</sup> Excludes orchids used for lei flowers. <sup>3</sup> Includes potted, cut, and unfinished. <sup>4</sup> Includes bedding plants, plant rentals, sod, trees, and any other nursery products not elsewhere classified. Sum of county estimates may not add to State total due to rounding. <sup>5</sup> Includes grower sales greater than \$999 but less than \$10,000 which were not categorized. <sup>6</sup> Unfinished foliage, 1998 included in "All other nursery products". <sup>7</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.



# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000<sup>1</sup>

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
<b>CUT FLOWERS</b>				
<b>Anthuriums - dozens</b>				
1996	65	11,100	906	7,056
1997	61	11,420	758	6,892
1998	75	11,285	834	6,301
1999	68	11,500	1,019	6,725
<b>2000</b>	<b>64</b>	<b>NA</b>	<b>1,114</b>	<b>7,352</b>
<b>Birds of Paradise - dozens</b>				
1996	29	2,740	102	554
1997	31	2,740	78	486
1998	24	2,285	66	495
1999	25	5,650	86	566
<b>2000</b>	<b>26</b>	<b>NA</b>	<b>101</b>	<b>687</b>
<b>Carnations, miniature - bunches</b>				
1996	10	230	111	390
1997	8	205	91	320
1998	5	115	47	124
1999	4	75	51	131
<b>2000<sup>3</sup></b>				
<b>Chrysanthemums, pompon - bunches</b>				
1996	4	275	225	479
1997	4	295	177	409
1998	6	265	196	358
1999	4	250	251	588
<b>2000</b>	<b>4</b>	<b>NA</b>	<b>206</b>	<b>415</b>
<b>Ginger, pink - dozens</b>				
1996	54	2,180	76	528
1997	40	1,915	52	402
1998	52	3,075	92	530
1999	47	3,465	82	464
<b>2000</b>	<b>47</b>	<b>NA</b>	<b>81</b>	<b>541</b>
<b>Ginger, red - dozens</b>				
1996	52	2,660	88	444
1997	46	2,350	85	473
1998	63	4,860	142	794
1999	61	3,380	157	748
<b>2000</b>	<b>55</b>	<b>NA</b>	<b>138</b>	<b>754</b>

See footnotes at end of table.

Continued

# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000<sup>1</sup> -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
<b>Gingers, other - dozens</b>				
1996	26	610	13	100
1997	16	575	14	92
1998	30	830	18	144
1999	27	1,085	30	221
<b>2000</b>	<b>26</b>	<b>NA</b>	<b>28</b>	<b>215</b>
<b>Heliconias - dozens</b>				
1996	51	3,920	44	477
1997	47	3,445	40	432
1998	56	5,775	56	664
1999	58	4,860	72	613
<b>2000</b>	<b>56</b>	<b>NA</b>	<b>66</b>	<b>680</b>
<b>Proteas - stems</b>				
1996	31	7,100	1,772	1,233
1997	30	5,625	1,353	1,160
1998	28	8,015	2,996	1,738
1999	33	8,345	2,518	1,677
<b>2000</b>	<b>26</b>	<b>NA</b>	<b>1,933</b>	<b>1,400</b>
<b>Roses<sup>4</sup> - stems</b>				
1996				
1997				
1998				
1999				
<b>2000</b>	<b>9</b>	<b>NA</b>	<b>6,288</b>	<b>2,545</b>
<b>Other cut flowers - dozens</b>				
1996	36	NA	NA	3,840
1997	35	NA	NA	3,303
1998	38	NA	NA	4,028
1999	31	NA	NA	4,784
<b>2000</b>	<b>32</b>	<b>NA</b>	<b>NA</b>	<b>2,207</b>

See footnotes at end of table.

Continued

# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000<sup>1</sup> -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
<b>ORCHIDS</b>				
<b>Cymbidiums, cut - flowers</b>				
1996	8	280	300	189
1997	8	275	348	137
1998	12	315	418	216
1999	12	335	537	337
<b>2000</b>	<b>10</b>	<b>NA</b>	<b>509</b>	<b>315</b>
<b>Dendrobiums, sprays - dozens</b>				
1996	48	3,105	383	2,797
1997	56	3,505	368	2,549
1998	59	2,970	419	2,864
1999	49	2,610	378	2,608
<b>2000</b>	<b>49</b>	<b>NA</b>	<b>340</b>	<b>2,335</b>
<b>Oncidiums, sprays - dozens</b>				
1996	28	275	40	386
1997	28	305	34	356
1998	32	485	58	580
1999	31	355	47	463
<b>2000</b>	<b>37</b>	<b>NA</b>	<b>53</b>	<b>490</b>
<b>Other orchids, sprays<sup>5</sup> - dozens</b>				
1996	7	NA	NA	37
1997	5	NA	NA	25
1998	4	NA	NA	52
1999	6	NA	NA	28
<b>2000</b>	<b>10</b>	<b>NA</b>	<b>NA</b>	<b>119</b>
<b>Dendrobiums, potted<sup>6</sup> - pots</b>				
1996	63	1,200	1,131	5,185
1997	63	1,295	1,409	6,392
1998	63	NA	1,107	6,069
1999	72	NA	942	5,640
<b>2000</b>	<b>75</b>	<b>NA</b>	<b>1,076</b>	<b>6,588</b>
<b>Phalaenopsis, potted<sup>7</sup> - pots</b>				
1996				
1997				
1998	20	NA	221	1,178
1999	21	NA	205	1,169
<b>2000</b>	<b>24</b>	<b>NA</b>	<b>139</b>	<b>1,012</b>
<b>Other orchids, potted - pots</b>				
1996	57	1,185	1,553	6,819
1997	56	1,235	1,295	6,020
1998	57	NA	951	4,831
1999	61	NA	1,551	6,921
<b>2000</b>	<b>75</b>	<b>NA</b>	<b>1,531</b>	<b>7,104</b>

See footnotes at end of table.

Continued

# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000<sup>1</sup> -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
<b>LEI/INDIVIDUAL BLOOMS</b>				
<b>Carnations - blooms</b>				
1996	11	NA	10,000	538
1997	7	NA	7,500	410
1998	9	NA	6,800	448
1999	7	NA	5,600	397
<b>2000</b>	<b>6</b>	<b>NA</b>	<b>5,300</b>	<b>372</b>
<b>Dendrobiums - blooms</b>				
1996	33	NA	24,700	740
1997	35	NA	24,800	725
1998	28	NA	28,900	855
1999	27	NA	21,700	673
<b>2000</b>	<b>26</b>	<b>NA</b>	<b>19,800</b>	<b>596</b>
<b>Pikake - strands</b>				
1996	4	NA	21.7	86
1997 <sup>8</sup>				
1998	5	NA	55.6	128
1999	7	NA	82.5	222
<b>2000</b>	<b>8</b>	<b>NA</b>	<b>77.8</b>	<b>270</b>
<b>Plumerias - blooms</b>				
1996	12	NA	29,900	717
1997	11	NA	31,800	833
1998	9	NA	23,800	601
1999	10	NA	45,000	931
<b>2000</b>	<b>12</b>	<b>NA</b>	<b>25,700</b>	<b>627</b>
<b>Tuberose - blooms</b>				
1996	7	NA	8	8
1997	4	NA	8	8
1998	6	NA	19,500	912
1999	6	NA	20,400	959
<b>2000</b>	<b>7</b>	<b>NA</b>	<b>22,100</b>	<b>987</b>
<b>Vanda, Miss Joaquim - blooms</b>				
1996	12	NA	22,200	627
1997	9	NA	22,300	657
1998	9	NA	10,900	292
1999	7	NA	11,300	396
<b>2000</b>	<b>7</b>	<b>NA</b>	<b>13,900</b>	<b>503</b>
<b>Other lei/individual - blooms</b>				
1996	NA	NA	NA	1,235
1997	NA	NA	NA	1,188
1998	NA	NA	NA	249
1999	NA	NA	NA	473
<b>2000</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>325</b>

See footnotes at end of table.

Continued

# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000<sup>1</sup> -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
<b>FOLIAGE</b>				
<b>Potted, primarily for indoor or patio use<sup>9</sup></b>				
1996	75	7,495	NA	13,000
1997	60	6,395	NA	12,552
1998	74	5,035	NA	14,617
1999	65	5,265	NA	15,002
<b>2000<sup>10</sup></b>				
<b>Potted, dracaena<sup>11</sup></b>				
1996				
1997				
1998				
1999				
<b>2000</b>	<b>31</b>	<b>NA</b>	<b>NA</b>	<b>6,648</b>
<b>Potted, palms<sup>11</sup></b>				
1996				
1997				
1998				
1999				
<b>2000</b>	<b>43</b>	<b>NA</b>	<b>NA</b>	<b>8,334</b>
<b>Potted, hanging baskets<sup>11</sup></b>				
1996				
1997				
1998				
1999				
<b>2000</b>	<b>16</b>	<b>NA</b>	<b>NA</b>	<b>123</b>
<b>Potted, other<sup>11</sup></b>				
1996				
1997				
1998				
1999				
<b>2000</b>	<b>39</b>	<b>NA</b>	<b>NA</b>	<b>1,880</b>
<b>Potted, primarily for landscape use</b>				
1996	62	NA	NA	3,527
1997	62	NA	NA	3,515
1998 <sup>12</sup>				
1999 <sup>12</sup>				
<b>2000<sup>12</sup></b>				

See footnotes at end of table.

Continued

# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000<sup>1</sup> -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
<b>Ti leaves, cut - leaves</b>				
1996	36	1,480	3,100	218
1997	27	1,225	2,600	153
1998	41	2,585	6,000	412
1999	45	2,575	5,900	468
<b>2000</b>	<b>37</b>	<b>NA</b>	<b>2,100</b>	<b>161</b>
<b>Unfinished foliage stock (for further growing on)</b>				
1996	19	20,000	NA	664
1997	16	17,205	NA	511
1998 <sup>12</sup>				
1999 <sup>12</sup>				
<b>2000</b>	<b>12</b>	<b>NA</b>	<b>NA</b>	<b>702</b>
<b>Other greens, cut</b>				
1996	24	NA	NA	171
1997	23	NA	NA	258
1998	35	NA	NA	374
1999	22	NA	NA	224
<b>2000</b>	<b>32</b>	<b>NA</b>	<b>NA</b>	<b>347</b>
<b>POTTED BEDDING/GARDEN</b>				
<b>Impatiens, New Guinea</b>				
1996 <sup>12</sup>				
1997 <sup>12</sup>				
1998 <sup>12</sup>				
1999 <sup>12</sup>				
<b>2000</b>	<b>11</b>	<b>NA</b>	<b>104</b>	<b>129</b>
<b>Impatiens, other</b>				
1996 <sup>12</sup>				
1997 <sup>12</sup>				
1998 <sup>12</sup>				
1999 <sup>12</sup>				
<b>2000</b>	<b>8</b>	<b>NA</b>	<b>169</b>	<b>103</b>
<b>Other bedding/garden</b>				
1996 <sup>12</sup>				
1997 <sup>12</sup>				
1998 <sup>12</sup>				
1999 <sup>12</sup>				
<b>2000</b>	<b>30</b>	<b>NA</b>	<b>NA</b>	<b>2,502</b>

See footnotes at end of table.

Continued

# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000<sup>1</sup> -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
<b>POTTED FLOWERING PLANTS</b>				
<b>Anthuriums - pots</b>				
1996	17	75	70	155
1997	21	190	140	390
1998	15	NA	113	321
1999	24	NA	144	495
<b>2000</b>	<b>28</b>	<b>NA</b>	<b>182</b>	<b>677</b>
<b>Bromeliads<sup>13</sup> - pots</b>				
1996				
1997				
1998	8	NA	88	423
1999	14	NA	112	626
<b>2000</b>	<b>18</b>	<b>NA</b>	<b>111</b>	<b>593</b>
<b>Chrysanthemums<sup>13</sup> - pots</b>				
1996				
1997				
1998	5	NA	127	573
1999	4	NA	159	677
<b>2000</b>	<b>6</b>	<b>NA</b>	<b>178</b>	<b>738</b>
<b>Poinsettias - pots</b>				
1996	27	600	243	952
1997	28	590	238	900
1998	30	NA	263	1,012
1999	30	NA	332	1,233
<b>2000</b>	<b>31</b>	<b>NA</b>	<b>334</b>	<b>1,292</b>
<b>Other potted flowering plants</b>				
1996	39	NA	NA	2,747
1997	40	NA	NA	2,461
1998	27	NA	NA	1,563
1999	26	NA	NA	1,390
<b>2000</b>	<b>30</b>	<b>NA</b>	<b>NA</b>	<b>1,744</b>

See footnotes at end of table.

Continued

# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000<sup>1</sup> -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
<b>ORNAMENTALS &amp; TREES</b>				
1996	43	NA	NA	1,741
1997	42	NA	NA	1,561
1998 <sup>12</sup>				
1999 <sup>12</sup>				
<b>2000<sup>12</sup></b>				
<b>PLANT RENTALS</b>				
1996	44	NA	NA	3,690
1997	37	NA	NA	2,925
1998	45	NA	NA	4,715
1999	32	NA	NA	3,226
<b>2000</b>	<b>37</b>	<b>NA</b>	<b>NA</b>	<b>3,369</b>
<b>LANDSCAPE PLANTS</b>				
1996 <sup>12</sup>				
1997 <sup>12</sup>				
1998 <sup>12</sup>				
1999 <sup>12</sup>				
<b>2000</b>	<b>96</b>	<b>NA</b>	<b>NA</b>	<b>10,361</b>
<b>OTHER NURSERY PRODUCTS<sup>14</sup></b>				
1996	96	NA	NA	6,182
1997	88	NA	NA	6,764
1998	NA	NA	NA	13,267
1999	NA	NA	NA	13,113
<b>2000</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>3,596</b>
<b>UNSPECIFIED SALES<sup>15</sup></b>				
1996				1,366
1997				1,404
1998				1,479
1999				1,537
<b>2000</b>				<b>1,642</b>
<b>TOTAL</b>				
1996	690			68,870
1997	670			66,655
1998	745			73,207
1999	765			75,725
<b>2000</b>	<b>755</b>			<b>83,380</b>

NA = Not available. <sup>1</sup> Beginning 1992, includes only producers having total sales of \$10,000 or more. <sup>2</sup> Number for each individual flower item is count of those having sales of that item during each year; "Total" is unduplicated count. <sup>3</sup> Included with "Other cut flowers". <sup>4</sup> Prior to 2000, included with "Other cut flowers". <sup>5</sup> Includes cattleyas, vanda hybrids, phalaenopsis, and paphiopedilums. <sup>6</sup> Includes in bud/bloom and community pots. <sup>7</sup> Prior to 1998, included with "Other orchids, potted". <sup>8</sup> Included with "Other lei/individual" to avoid disclosure of individual operations. <sup>9</sup> Includes hanging baskets. <sup>10</sup> Beginning 2000, separated into "Dracaena", "Palms", "Hanging baskets", and "Other". <sup>11</sup> Prior to 2000, included with "Potted, primarily for indoor or patio use". <sup>12</sup> Included with "Other nursery products". <sup>13</sup> Prior to 1998, included with "Other potted flowering plants". <sup>14</sup> Includes flowers or nursery products not elsewhere classified. <sup>15</sup> Beginning 1992, includes sales of growers greater than \$999 but less than \$10,000 which were not categorized.



# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Number of farms and growing area, by counties, 1996-2000

Year	Farms	Greenhouse <sup>1</sup>	Artificial shade	Natural shade	Open field	Total area
	<i>Number</i>	<i>----- 1,000 square feet -----</i>			<i>----- Acres -----</i>	
<b>State</b>						
1996	690	2,820	23,405	10	1,600	2,212
1997	670	2,805	23,885	10	1,535	2,158
1998	745	2,810	24,200	9	2,050	2,679
1999	765	2,910	25,695	15	2,040	2,712
<b>2000</b>	<b>755</b>	<b>3,370</b>	<b>25,930</b>	<b>10</b>	<b>2,115</b>	<b>2,798</b>
<b>Counties:</b>						
<b>Hawaii</b>						
1996	316	1,990	17,815	10	775	1,240
1997	312	2,000	18,805	10	875	1,363
1998	355	1,975	19,620	9	1,155	1,660
1999	355	1,970	21,450	15	1,015	1,568
<b>2000</b>	<b>365</b>	<b>2,560</b>	<b>21,400</b>	<b>8</b>	<b>980</b>	<b>1,538</b>
<b>Honolulu</b>						
1996	211	540	4,910	0	350	475
1997	202	510	4,380	0	310	422
1998	205	480	3,810	0	415	514
1999	225	485	3,360	0	465	553
<b>2000</b>	<b>215</b>	<b>395</b>	<b>3,495</b>	<b>0</b>	<b>490</b>	<b>579</b>
<b>Kauai</b>						
1996	52	60	345	0	60	69
1997	50	60	355	0	55	65
1998	40	75	295	0	45	53
1999	35	90	265	0	85	93
<b>2000</b>	<b>35</b>	<b>70</b>	<b>350</b>	<b>2</b>	<b>130</b>	<b>142</b>
<b>Maui</b>						
1996	111	230	335	0	415	428
1997	106	235	345	0	295	308
1998	145	280	475	0	435	452
1999	150	365	620	0	475	498
<b>2000</b>	<b>140</b>	<b>345</b>	<b>685</b>	<b>0</b>	<b>515</b>	<b>539</b>

<sup>1</sup> Glass or glass substitute structure.

# FLORICULTURE AND NURSERY PRODUCTS

## FLORICULTURE AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 1996-2000 <sup>1</sup>

Commodity	1996	1997	1998	1999	2000
<i>1,000 dollars</i>					
Anthuriums, cut	9,705	10,945	9,795	10,685	<b>12,290</b>
Birds of Paradise	650	720	945	710	<b>980</b>
Cymbidiums	115	80	130	110	<b>100</b>
Dendrobiums, sprays	4,110	3,545	3,820	2,875	<b>3,395</b>
Oncidium				270	<b>545</b>
Foliage, cut:					
Ti leaves	635	670	475	400	<b>670</b>
Other cut greens	1,010	885	1,070	845	<b>1,060</b>
Foliage, potted	9,500	10,320	12,220	12,785	<b>13,525</b>
Ginger, red	675	765	810	875	<b>1,455</b>
Gingers, other	605	450	800	890	<b>1,010</b>
Heliconias	800	820	955	970	<b>1,285</b>
Potted orchids:					
Dendrobiums	2,965	3,510	4,360	4,120	<b>3,850</b>
Phalaenopsis				285	<b>655</b>
Other orchids	3,995	5,410	6,485	5,395	<b>6,285</b>
Proteas	1,625	2,025	2,405	2,130	<b>1,930</b>
Unfinished potted foliage stock	70	70	400	355	<b>270</b>
All other flowers and nursery products	1,930	1,185	2,510	2,245	<b>2,345</b>
<b>Total</b>	<b>38,390</b>	<b>41,400</b>	<b>47,180</b>	<b>45,945</b>	<b>51,650</b>

<sup>1</sup> Based on F.O.B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, leis, etc., purchased within the State and hand carried out.

## DENDROBIUM ORCHIDS: Sales and value, State of Hawaii, 1996-2000 <sup>1</sup>

Year	Individual blossoms		Cut sprays		Potted plants				Total value
	Number sold	Value	Number sold	Value	In bud/bloom		Community pots		
					Number sold	Value	Number sold	Value	
	<i>Million blooms</i>	<i>1,000 dollars</i>	<i>1,000 dozens</i>	<i>1,000 dollars</i>	<i>1,000 pots</i>	<i>1,000 dollars</i>	<i>1,000 pots</i>	<i>----- 1,000 dollars -----</i>	
1996	24.7	740	383	2,797	1,025	4,595	106	590	8,722
1997	24.8	725	368	2,549	1,249	5,599	160	793	9,666
1998	28.9	855	419	2,864	1,025	5,663	82	406	9,788
1999	21.7	673	378	2,608	816	5,119	126	521	8,921
2000	19.8	596	340	2,335	948	5,622	128	966	9,519

<sup>1</sup> Includes only producers with total sales of \$10,000 or more.